

The diagram illustrates a vehicle system 10. Internal components include an ENGINE ECU (8), a STEERING LOCK ECU (7), an ELECTRONIC KEY ECU (4), and an INSIDE TRANSMITTER (25). External components include a MOBILE UNIT (1), two sets of door ECUs (51, 52 and 53, 54) with associated OUTSIDE TRANSMITTERS (21, 22 and 23, 24), and two sets of lamp/sensor/sw units (61, 62 and 63, 64). A RECEIVER (3) is connected to the ELECTRONIC KEY ECU (4) and the MOBILE UNIT (1). Various communication lines (11, 12, 13, 14) connect the internal and external components.

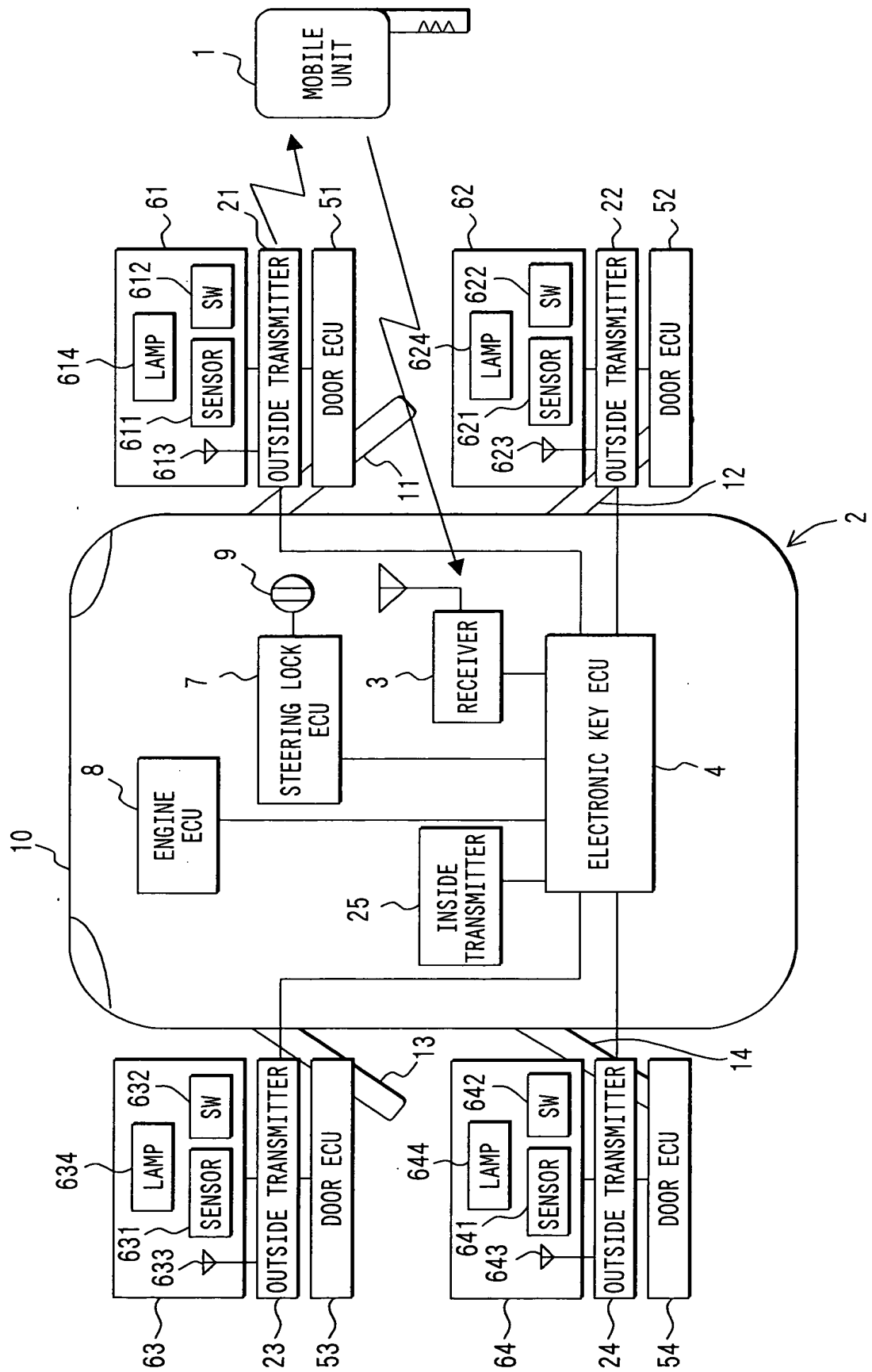


FIG. 2

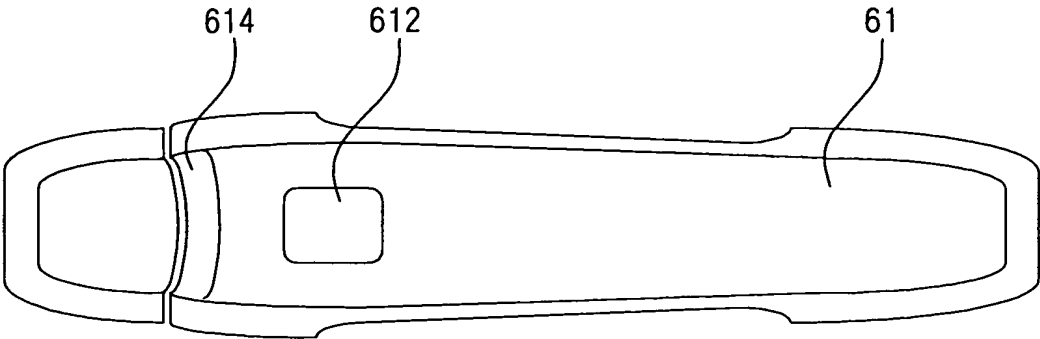


FIG. 4

STATE OF DOOR 11	UNLOCK	LOCK STANDBY	LOCK	
TRANSITIONAL CONDITION	ENGINE SW:OFF DOOR:OPEN →CLOSE ID CODE:OK	DOOR SWITCH:ON	TIME ELAPSES	
STATE OF LAMP 614	OFF	BLINK WITH GREEN	LIGHT WITH RED	OFF
STATE OF OTHER DOORS	UNLOCK		LOCK	
STATE OF OTHER LAMPS	OFF	LIGHT WITH GREEN	LIGHT WITH RED	OFF

FIG. 3A

STATE OF DOOR 11	LOCK	UNLOCK STANDBY	UNLOCK	
TRANSITIONAL CONDITION		ID CODE:OK	DOOR IS TOUCHED	TIME ELAPSES OR ENGINE IS STARTED
STATE OF LAMP 614	OFF	BLINK WITH RED	LIGHT WITH GREEN	OFF
STATE OF OTHER DOORS	LOCK		UNLOCK	
STATE OF OTHER LAMPS	OFF	LIGHT WITH RED	LIGHT WITH GREEN	OFF

FIG. 3B

STATE OF DOOR	UNLOCK		LOCK	
TRANSITIONAL CONDITION		ENGINE SW:OFF AND DOOR:OPEN →CLOSE	ID CODE:OK AND DOOR SWITCH:ON	TIME ELAPSES
STATE OF LAMP	OFF	BLINK WITH GREEN	LIGHT WITH RED	OFF